(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
5 July 2001 (05.07.2001)

PCT

(10) International Publication Number
WO 01/47571 A3

(51) International Patent Classification[7]: A61L 24/00

(21) International Application Number: PCT/US00/35572

(22) International Filing Date:
29 December 2000 (29.12.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/474,276 29 December 1999 (29.12.1999) US

(71) Applicant: REGENERATION TECHNOLOGIES, INC. [US/US]; 1 Innovation Drive, Alachua, FL 32615 (US).

(72) Inventors: WIRONEN, John, F.; 1 Innovation Drive, Alachua, FL 32615 (US). KAO, Penelope; 1 Innovation Drive, Alachua, FL 32615 (US). BERNHARDT, Andy; 1 Innovation Drive, Alachua, FL 32615 (US).

(74) Agent: VAN DYKE, Timothy, H.; Bencen & Van Dyke, P.A., 1630 Hillcrest Street, Orlando, FL 32803 (US).

(81) Designated States *(national)*: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

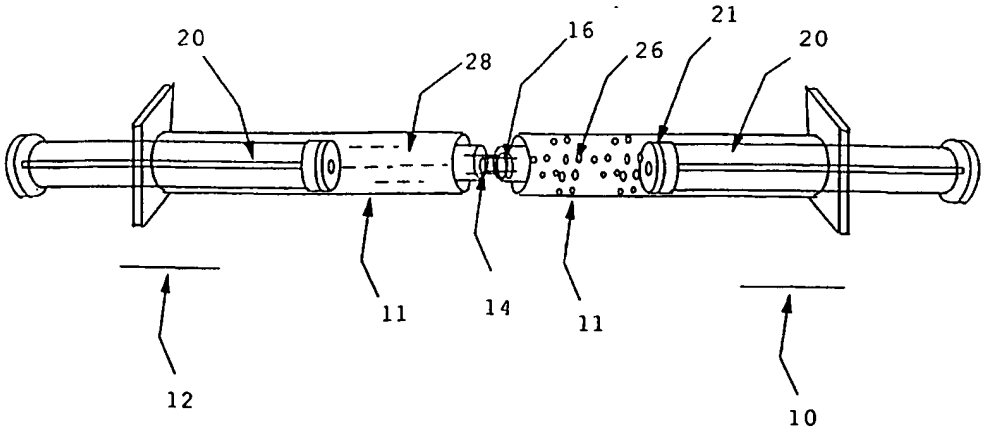
(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

(88) Date of publication of the international search report:
3 January 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM FOR RECONSTITUTING PASTES AND METHODS OF USING SAME



(57) Abstract: Disclosed herein is an efficient and cost-effective system for reconstituting bone pastes comprising a first syringe containing a reconstitution fluid and second syringe containing paste components, wherein said first and second syringes are communicatingly interconnectable. Also disclosed are novel methods for producing and storing bone pastes.

WO 01/47571 A3

INTERNATIONAL SEARCH REPORT

Inte onal Application No
PCT/US 00/35572

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61J1/00 B01F13/00 A61F2/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61J A61F B01F A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	EP 0 266 058 A (COLLAGEN CORP) 4 May 1988 (1988-05-04) column 5, line 30 - line 53 column 6, line 54 -column 7, line 4; figures	1,7-16, 38 36,37
A	---	33-35
X	FR 2 749 169 A (DELAB) 5 December 1997 (1997-12-05) page 12, line 16 -page 13, line 14 page 14, line 10 - line 13 page 20, line 8 - line 20; figures	1-6,11, 17-23, 25-29, 32,38
Y	--- EP 0 800 837 A (NISSHO KK) 15 October 1997 (1997-10-15) page 2, line 20 - line 24; figures 1,2	36,37
	--- -/--	

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

'A' document defining the general state of the art which is not considered to be of particular relevance

'E' earlier document but published on or after the international filing date

'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

'O' document referring to an oral disclosure, use, exhibition or other means

'P' document published prior to the international filing date but later than the priority date claimed

'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

'&' document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
12 June 2001	22/06/2001

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Cametz, C

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Inte: ...nal Application No
PCT/US 00/35572

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 951 160 A (RONK ROBERT) 14 September 1999 (1999-09-14) abstract column 4, line 4 - line 12; figures	24
A	FR 861 474 A (G. C. BOULITTE) 19 February 1941 (1941-02-19) page 2, left-hand column, line 1 - line 8; figures	33-35
A	WO 97 18031 A (CEMVAC SYSTEM AB) 22 May 1997 (1997-05-22)	

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inte· ɔnal Application No
PCT/US 00/35572

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0266058 A	04-05-1988	US 4743229 A	10-05-1988
		AU 7907887 A	31-03-1988
		CA 1282774 A	09-04-1991
		JP 1694525 C	17-09-1992
		JP 3060501 B	13-09-1991
		JP 63277060 A	15-11-1988
FR 2749169 A	05-12-1997	AU 720600 B	08-06-2000
		AU 3179797 A	05-01-1998
		BR 9709537 A	10-08-1999
		CA 2257904 A	11-12-1997
		CN 1225574 A	11-08-1999
		CZ 9803887 A	11-08-1999
		EP 0909155 A	21-04-1999
		WO 9746202 A	11-12-1997
		HU 0002580 A	28-12-2000
		NO 985656 A	04-02-1999
		PL 330285 A	10-05-1999
EP 0800837 A	15-10-1997	JP 9280394 A	28-10-1997
		US 5839470 A	24-11-1998
US 5951160 A	14-09-1999	NONE	
FR 861474 A	19-02-1941	NONE	
WO 9718031 A	22-05-1997	AU 7659896 A	05-06-1997
		EP 1005900 A	07-06-2000
		EP 1016452 A	05-07-2000
		EP 1005901 A	07-06-2000
		EP 0861117 A	02-09-1998